

CLAIMS

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Currently amended) A transparent, polymerisable chemical composition comprising by weight 10% to 60% of transparent hydroxylated acrylic resins, 10% to 70% of monomers selected from oligoethers and acrylate or methacrylate monomers, 0% to 90% of solvents, Irganox 1010, and 0.1% to 10% of photoinitiators which initiate the polymerisation procedure when stimulated by light radiation.

Claim 2. (Currently amended) The composition according to claim 1, comprising by weight 20% to 50% resin, 20% to 70% monomers, 5% to 50% solvents and 0.5% to 6% photoinitiators.

Claim 3. (Previously Presented) The composition according to claim 1, wherein said resins are selected from the group consisting of acrylic, polyester acrylate, urethane acrylate aromatic or aliphatic resins or mixtures thereof.

Claim 4. (Previously Presented) The composition according to claim 1, wherein said resins have carboxylic functionality of between 1 to 6.

Claims 5-7. (Cancelled)

Claim 8. (Currently amended) The composition according to claim 1, wherein said solvents are selected from the group consisting ~~[[of esters]]~~ of esters, ketones or aromatic hydrocarbons normally used in the varnishes sector, and combinations thereof.

Claim 9. (Previously Presented) The chemical composition according to claim 1, wherein said photoinitiators are selected from the group consisting of benzophenone derivatives, ketone derivatives, methyl esters and phosphinoxides, or mixtures thereof.

Claim 10. (Previously Presented) The composition according to claim 9, wherein said benzophenone derivatives are selected from the group consisting of 4 methylbenzophenone and 2,4,6-trimethylbenzophenone and combinations thereof, said ketone derivatives are selected from the group consisting of 1-hydroxy-cyclohexyl-phenyl-ketone, 2,2-dimethoxy-1,2-diphenylethan-1-one, 2-hydroxy-2-methyl-1-phenyl-propan-1-one and combinations thereof, said methyl esters are phenyl glyoxylic acid and said phosphinoxides are 2,4,6-trimethylbenzoyl-diphenyl-phosphine oxide.

Claim 11. (Currently amended) The composition according to claim 1, comprising additives in quantities from 0.1% to 10%.

Claim 12. (Original) The composition according to claim 11, wherein said additives are antioxidants, protectives against solar radiation or products which confer hydro-repellance.

Claim 13. (Cancelled)

Claim 14. (Withdrawn) A method for the preparation of the chemical composition according to claim 1, comprising the steps of:

- a) preparing a solution by adding at least one resin and a suitable solvent or monomer;
- b) stirring the solution slowly for a time comprised of between 1' and 20' at a temperature comprised of between 58°C and 70°C;
- c) adding at least one photoinitiator, to the solution following solubilisation in a suitable solvent;
- d) mixing for a time comprised of between 5 and 20 minutes so as to obtain a homogenous solution and taking care to keep the solution protected from exposure to solar or

artificial light.

Claim 15. (Withdrawn) The method according to claim 14, wherein the step of preparing a solution further comprises adding from 10 to 60 parts of resin and from 40 to 90 parts of solvents or monomers;; and

the step of adding at least one photoinitiator further comprises adding photoinitiators previously solubilised in solvents at 40 – 60%, and added to the solution in a percentage of 1 – 6%.

Claim 16. (Withdrawn) A polymerisation procedure for the chemical composition according to claim 1, comprising the steps of:

- applying the chemical composition onto a substrate
- applying UV-A, UV-B or UV-C irradiation for a time comprised of between 2 seconds and 15 minutes.

Claim 17. (Withdrawn) The procedure according to claim 16, wherein the step of applying UV-A irradiation further comprises the step of emitting radiation between 280 and 450 nm.

Claim 18. (Withdrawn) The procedure according to claim 17, wherein the step of emitting radiation further comprises emitting radiation with a fluorescence or metallic iodide type lamp.

Claim 19. (Withdrawn) The procedure according to claim 16, wherein the step of applying UV-B and UV-C irradiation further comprises that step of emitting irradiation with lamps equipped with special filters for the neutralisation of the B and C type radiation.

Claim 20. (Withdrawn) The procedure according to claim 16, wherein the step of applying irradiation further comprises using lamps with power outputs of between 100W and 5KW.

Claim 21. (Withdrawn) The procedure according to claim 16, wherein the step of applying irradiation further comprises using multi-lamp systems with variable power outputs from 200W up to 5KW per lamp unit.

Claim 22. (Withdrawn) The procedure according to claim 16, wherein the step of applying irradiation further comprises using one or more lamps with a power output that varies from $0.1\text{W}/\text{cm}^2$ to $20\text{W}/\text{cm}^2$.

Claim 23. (Withdrawn) The procedure according to claim 16, wherein the step of applying irradiation further comprises mounting UV emitting lamps onto robotised rigs which are able to irradiate complex profile surfaces in a homogeneous manner by carrying out a scan of the surface to be irradiated with a scanning speed directly proportional to the power output of the UV system used.

Claim 24. (Withdrawn) The procedure according to claim 23, wherein the step of applying irradiation further comprises using lamps with variable power outputs of between 2.5KW to 25KW.

Claim 25. (Withdrawn) The treatment method for bodywork or parts of the bodywork of vehicles, comprising the steps of:

- i) providing a polymerisable chemical composition according to claim 1;
- ii) applying a layer of said chemical composition onto the surfaces to be treated;
- iii) leaving the solvent contained in said layer of said chemical composition to evaporate;
- iv) irradiating said layer with a UV radiation lamp for a sufficient time so as to substantially obtain the complete polymerisation thereof.

Claim 26. (Withdrawn) The method according to claim 25, wherein the step of applying a layer of said chemical composition further comprises depositing in the form of a film previously diluted with an appropriate solvent, said film having a thickness which can vary between 10

microns to 100 microns and a viscosity which can vary between 12 to 18 seconds in a Ford #4 cup.

Claim 27. (Withdrawn) The method according to claim 25, wherein the step of leaving the solvent to evaporate comprises leaving the solvent to evaporate from 1 minute to 5 minutes.

Claim 28. (Withdrawn) The method according to claim 25, wherein the step of irradiating further comprises applying UV-A, UV-B or UV-C irradiation for a time comprised of between 2 seconds and 15 minutes.

Claim 29. (Withdrawn) The method according to claim 25, further comprising the steps prior to the application of the polymerisable chemical composition:

- reshaping or replacing the damaged parts of the bodywork;
- filling and sanding the surface of said damaged part;
- applying one or more primers onto said surface and the relevant polymerisation;
- preparing said surface for the application of “base coat” using abrasive papers;
- applying the “base coat”.

Claim 30. (Withdrawn) The method according to claim 25, further comprising the step of finishing.

Claim 31. (Withdrawn) The use of a transparent, polymerisable chemical composition according to claim 1 for the treatment of bodywork or parts of the bodywork of vehicles.

Claim 32. (Previously Presented) The composition according to claim 4, wherein said resins have carboxylic functionality of between 2 and 6.

Claim 33. (Currently amended) The composition according to claim 11, further comprising additives in quantities by weight from 0.1% to 3%.

Claim 34. (New) The compound of Claim 1 comprising TINUVIN 400.

Claim 35. (New) The compound of Claim 1 comprising BYK UV 3500.

Claim 36. (New) A transparent, polymerisable chemical composition comprising by weight 10% to 60% of transparent hydroxylated acrylic resins, 10% to 70% of monomers selected from oligoethers and acrylate or methacrylate monomers, 0% to 90% of solvents, TINUVIN 400, and 0.1% to 10% of photoinitiators which initiate the polymerisation procedure when stimulated by light radiation.

Claim 37. (New) A transparent, polymerisable chemical composition comprising by weight 10% to 60% of transparent hydroxylated acrylic resins, 10% to 70% of monomers selected from oligoethers and acrylate or methacrylate monomers, 0% to 90% of solvents, BYK UV 3500, and 0.1% to 10% of photoinitiators which initiate the polymerisation procedure when stimulated by light radiation.